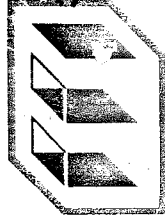


87-275

**ENVIRODYNE
ENGINEERS**12161 Lackland Road,
St. Louis, Missouri 63146
(314) 434-6960

911745

May 19, 1987
3059-30000Dennis Newman
Land Pollution Control
Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, Illinois 62706

RE: Van Tran Electric Off-Site Sediment Sampling

Dear Dennis:

On May 13, 1987, Greg Dunn (IEPA/PSI) and I collected 12 sets of sediment samples from Town Branch Creek in Vandalia, Illinois. Sample locations are shown on the two attached maps ("Sketch 1" is the map from our 04/08/87 plan for sampling). All samples were obtained from areas of sediment deposition. Each sample is a composite of 3 to 5 subsamples taken within a 10' stream reach at each sample site. All but sample no. 4 were obtained with stainless steel spoons. No. 4 was obtained with a stainless steel soil probe. Subsamples were placed in stainless steel pans and field composited with stainless steel spatulas at each site, then placed in the containers provided. (Samples for the PSI survey were obtained from the same composites as our PCB samples.) Sites were sampled in the order 11, 10, 9, 8, 1, 7, 6, 3, 2, 4, 5. Descriptions of the sites and activities follow:

Site 1. Drainage ditch along RR tracks to N of site. Light brown medium sand. Dry.

Site 2. Roadside drainage ditch to NE of site. Light brown sandy silt. Dry.

Site 3. Drainage ditch below confluence of streams from sites 1 and 2. Light brown sandy silt. Dry.

Site 4. Drainage ditch from east side of site along south side of Ray's Excavating. Light brown silt. Dry. Compacted; obtained with soil probe.

Site 5. Deposition area below confluence of 3, 4. Brown silt. Ponded water.

Site 6. Drainage ditch from west side of site to south of Van Tran Avenue. Light brown silt. Dry. Obtained from mouths of culverts under Van Tran Avenue and entry road to Purina.

Site 7. Ponded deposition area below confluence of streams from sites 5 and 6. Brown silt.

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Dennis Newman
Land Pollution Control
Illinois Environmental Protection Agency
May 19, 1987
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Site 8. Large alluvial fan, approximately 200 yards to north of City Park. Brown silt. Stream flowing at this point.

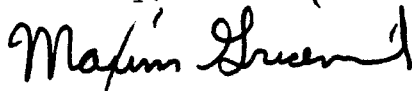
Site 9. Central part of City Park. Three distinctly different groups of sediments in this area - (1) brown sand with intermixed detritus in central channel, (2) brown silt on top 1 - 1-1/2" with layer of dark brown organic muck on "outsides" of meanders, bluish-gray clay with 1/4 - 1/2" of brown silt on top to "insides" of meanders. Attempted to obtain equal aliquots of each.

Site 10. South end of City Park immediately upstream from confluence of Town Branch and a residential drainage stream from the west. Brown silt.

Site 11. Immediately downstream (east) of Highway 51. Brown clayey silt.

Site 12. Approximately 100 yards to west of confluence of Town Branch and Kaskaskia River. To inside (deposition side) of meander. Bluish-gray clayey silt with conspicuous iron nodules and septic odor.

Sincerely,



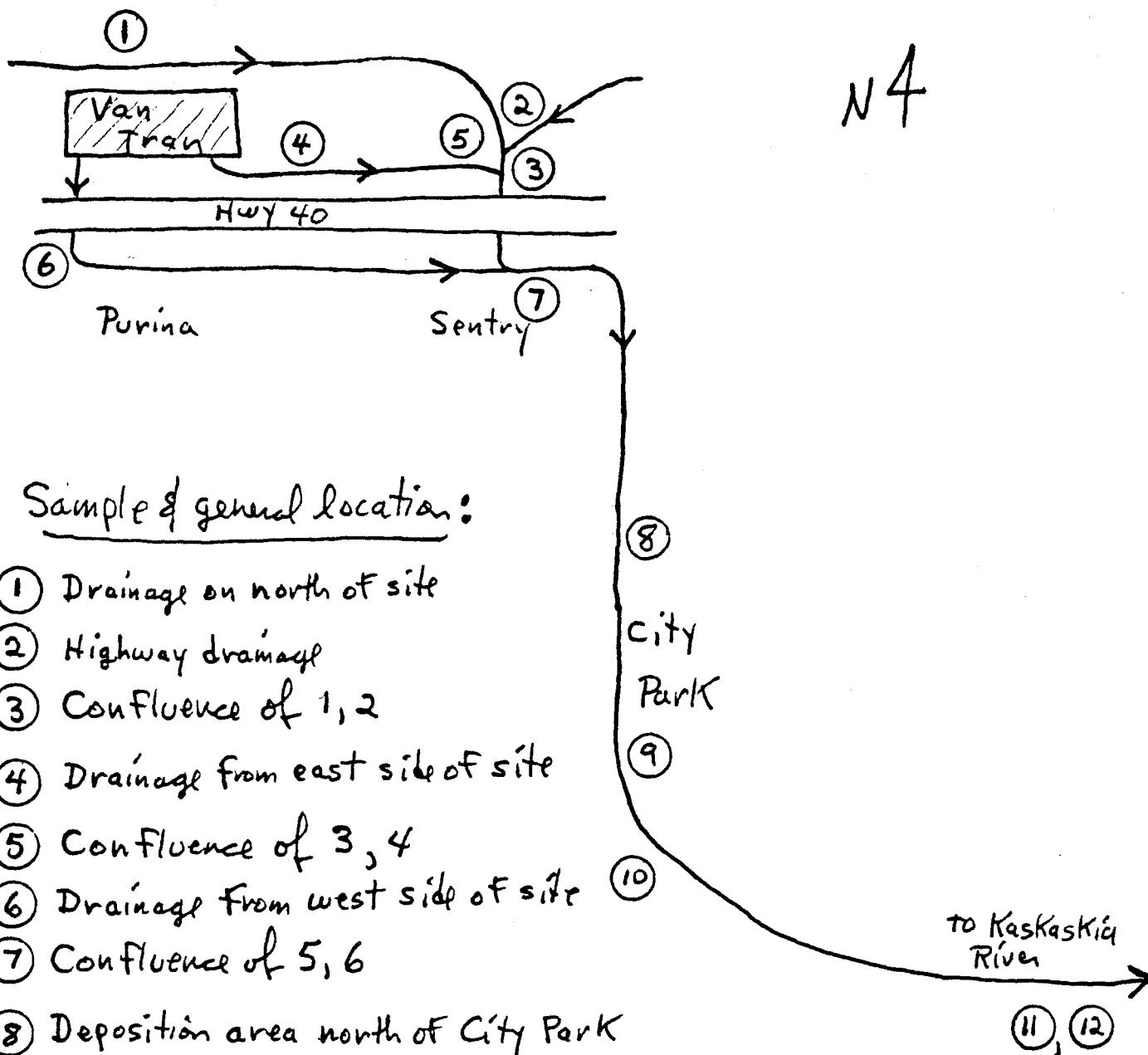
Maxim A. Gricevich
Project Manager

MAG/smb



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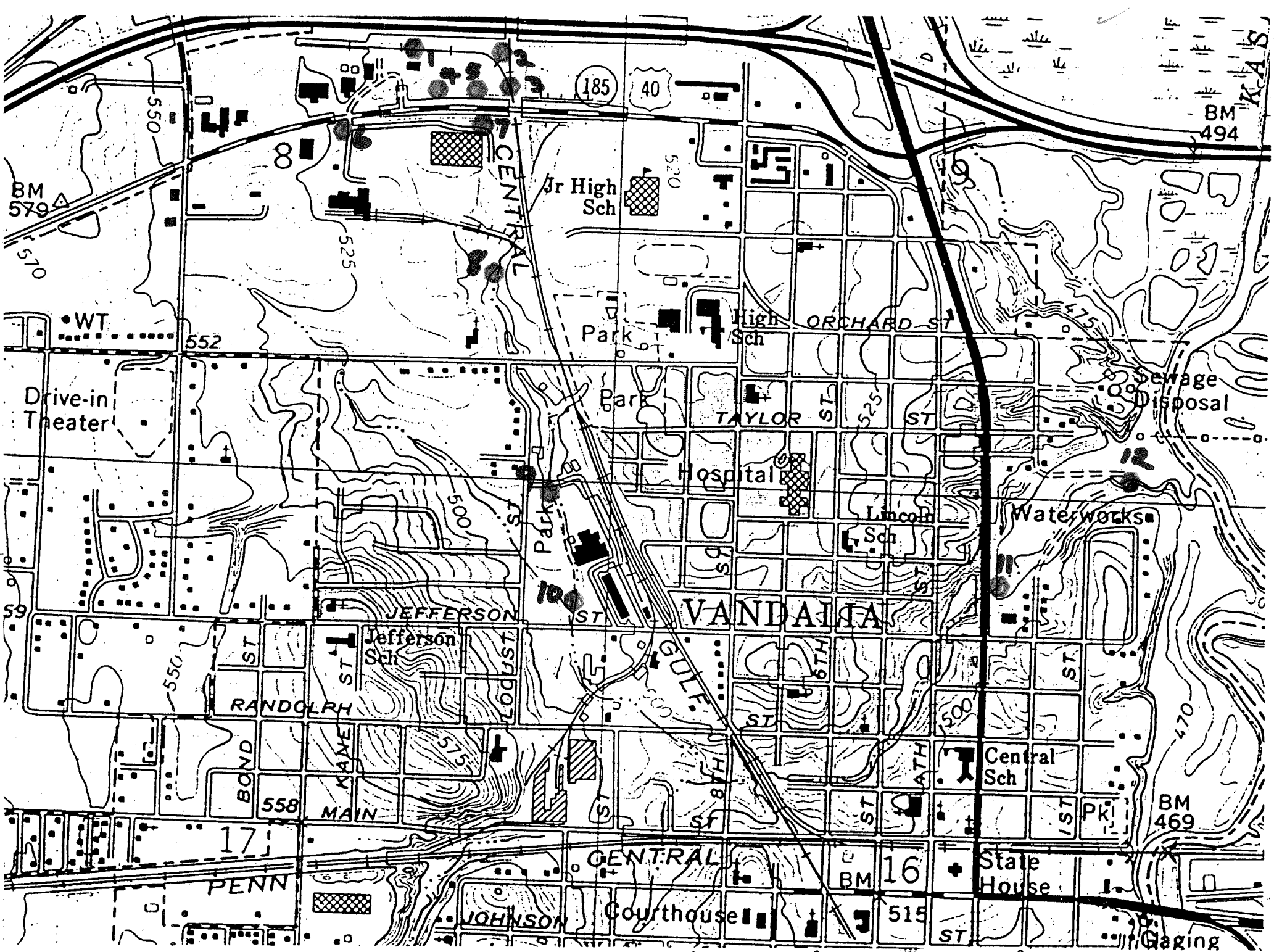
Job No. 3059 Project: Van Tran Electric
Subject: Town Branch Sediment Sampling
Sheet _____ of _____
By: _____ Date: _____ Ck: _____ Date: _____



Sample & general location:

- ① Drainage on north of site
- ② Highway drainage
- ③ Confluence of 1, 2
- ④ Drainage from east side of site
- ⑤ Confluence of 3, 4
- ⑥ Drainage from west side of site
- ⑦ Confluence of 5, 6
- ⑧ Deposition area north of City Park
- ⑨, ⑩ City Park
- ⑪, ⑫ S of City Park to Kaskaskia River.

Sketch 1. Surface Drainageways — Van Tran
Electric — Proposed Sediment Sampling Areas



5/13/87 Van Tron off-site Sediment Points